

The Joint Policy Committee

September 21, 2012

**Bay Area
Joint Policy Committee**

Association of Bay Area Governments
Bay Area Air Quality Management District
Bay Conservation and Development Commission
Metropolitan Transportation Commission

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**Home** **JPC Members** **JPC Staff** **Meetings** **Projects**

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[September 10, 2012](#)**Member Agencies:**
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JPC: Bay Area Climate & Energy Resilience Project

- ❑ Kresge Foundation Grant
- ❑ Climate Corps Bay Area
- ❑ UC Berkeley/JPC Do-Tank
- ❑ CA Adaptation Alliance (SD, LA, BA, SAC)
- ❑ ABAG Hazard Mitigation Planning
- ❑ 11-Study Report on Bay Area Impacts

Problems We Are Trying to Solve

- ❑ Reinventing the Adaptation Wheel
- ❑ Most cities don't have capacity
- ❑ Some impacts cross city/county lines
- ❑ Infrastructure owned— Natural systems, health more complex
- ❑ State needs efficient way to work with cities

Kresge Foundation Project

- ❑ Six-month initial grant to organize collaborative
- ❑ Story and briefing paper
- ❑ 20+ stakeholder meetings: Increase support for adaptation, ID needs, shape plan
- ❑ Special work plans:
 - Research — Information: Andy Gunther, BAECCC
 - Decision-making: Steve Weissman, Berkeley Law
 - Social equity: Kirsten Schwind, Bay Localize
 - GHGs + Adaptation: Laura Sasso, Climate Corps
- ❑ **Structure & Action Plan**

UC Berkeley/JPC Do-Tank on Climate Adaptation

- ❑ Forum for Academic Experts + Policy Makers
- ❑ Joint Research Projects
- ❑ Mark Richards, Executive Dean, Letters & Science
- ❑ J. Keith Gillespie, Dean, Natural Resources
- ❑ Steven Martin, Dean, Biological Sciences
- ❑ Jennifer Wolch, Dean, Environmental Design
- ❑ Paul Waddell, Chair, City and Regional Planning
- ❑ David Ackerly, Professor, Integrative Biology
- ❑ Bill Collins, Senior Scientist, Lawrence Berkeley Laboratory
- ❑ Ronald Cohen, Director, Atmospheric Science Center
- ❑ Steve Weissman, Center for Law, Energy & Environment
- ❑ Michael Kiparsky, Wheeler Institute for Water Law & Policy
- ❑ Julie Sinai, Chancellor's Office
- ❑ Deborah Miller, Development Director, Letters & Science

CA Adaptation Alliance

- ❑ Problem-solving among 4 regional groups (SD, LA, Bay Area, Sacramento)
- ❑ Formal partnership with OPR & State agencies
- ❑ San Diego Foundation
- ❑ Port of San Diego
- ❑ City of Los Angeles (Mayor's office)
- ❑ LA Dept of Water and Power
- ❑ UCLA
- ❑ Joint Policy Committee
- ❑ BAECCC
- ❑ BCDC
- ❑ UC Davis
- ❑ Sacramento AQMD
- ❑ SACOG
- ❑ Greenwise Joint Venture

11-Study State Report: Bay Area Climate Impacts

COMMUNITY-BASED CLIMATE ADAPTATION PLANNING: CASE STUDY OF OAKLAND, CALIFORNIA

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: Pacific Institute

JULY 2012
CEC 999-2012-038

IMPACTS OF PREDICTED SEA-LEVEL RISE AND EXTREME STORM EVENTS ON THE TRANSPORTATION INFRASTRUCTURE IN THE SAN FRANCISCO BAY REGION

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: University of California, Berkeley



JULY 2012
CEC 999-2012-040

MAPPING CLIMATE CHANGE EXPOSURES, VULNERABILITIES, AND ADAPTATION TO PUBLIC HEALTH RISKS IN THE SAN FRANCISCO BAY AND FRESNO REGIONS

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: University of California, Berkeley



JULY 2012
CEC 999-2012-041

THE IMPACTS OF SEA LEVEL RISE ON THE SAN FRANCISCO BAY

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: Pacific Institute



JULY 2012
CEC 999-2012-034

CLIMATE CHANGE AND THE AGRICULTURAL SECTOR IN THE SAN FRANCISCO BAY AREA

Changes in Viticulture and Rangeland
Forage Production Due to Altered
Temperature and Precipitation Patterns

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: University of California, Berkeley

JULY 2012
CEC 999-2012-053

IDENTIFYING AND OVERCOMING BARRIERS TO CLIMATE CHANGE ADAPTATION IN SAN FRANCISCO BAY Results from Case Studies

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: Suzanne Moser Research & Consulting and Stanford University
University of California, Berkeley

JULY 2012
CEC 999-2012-034

IMPACTS OF CLIMATE CHANGE ON SAN FRANCISCO BAY AREA RESIDENTIAL ELECTRICITY CONSUMPTION: EVIDENCE FROM BILLING DATA

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: University of California, Berkeley

JULY 2012
CEC 999-2012-045

CLIMATE CHANGE ADAPTATIONS FOR LOCAL WATER MANAGEMENT IN THE SAN FRANCISCO BAY AREA

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: William S. Stol, Jay R. Lund, and Jozsef Madarasz
Civil and Environmental Engineering, University of California, Davis



JULY 2012
CEC 999-2012-038

CLIMATE CHANGE SCENARIOS FOR THE SAN FRANCISCO REGION

A White Paper from the California Energy Commission's California Climate Change Center

Prepared for: California Energy Commission
Prepared by: Scripps Institution of Oceanography, University of California San Diego

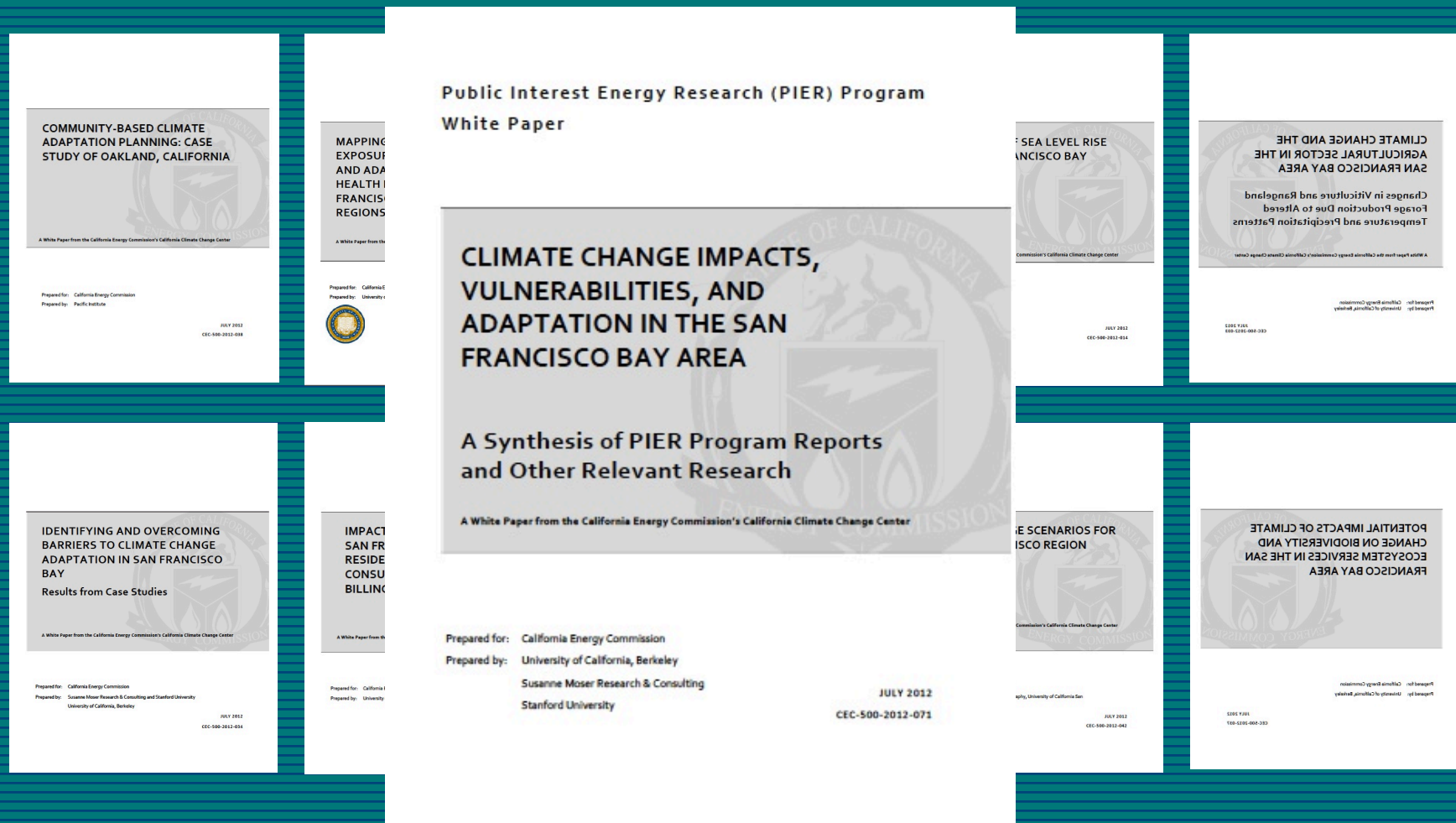
JULY 2012
CEC 999-2012-042

POTENTIAL IMPACTS OF CLIMATE CHANGE ON BIODIVERSITY AND ECOSYSTEM SERVICES IN THE SAN FRANCISCO BAY AREA

Prepared for: California Energy Commission
Prepared by: University of California, Berkeley

JULY 2012
CEC 999-2012-057

11-Study State Report: Bay Area Climate Impacts



Top Ten Bay Area Crops

Table 1. Value and Acreage of the Top 10 Crops in the San Francisco Bay Area Region

Commodity	Value	Acres
Grapes*	\$917,261,900	106,924
Animal Products	\$315,935,960	N/A
Nursery Products	\$323,823,700	N/A
Mushrooms	\$65,797,000	158
Vegetables	\$58,122,800	5,836
Hay	\$40,802,300	67,784
Flowers	\$35,639,900	N/A
Tomatoes	\$28,963,200	11,220
Pasture	\$25,025,200	1,290,179
Walnuts	\$23,852,700	8,352

*All counties produce exclusively wine grapes, except for Contra Costa County, which is listed as "undetermined," and likely includes a significant amount of table grapes. See also Table 2, below.

Source: NASS 2008

Growing Conditions for High Quality Wine Production

Source: Chaplin-Kramer, PIER

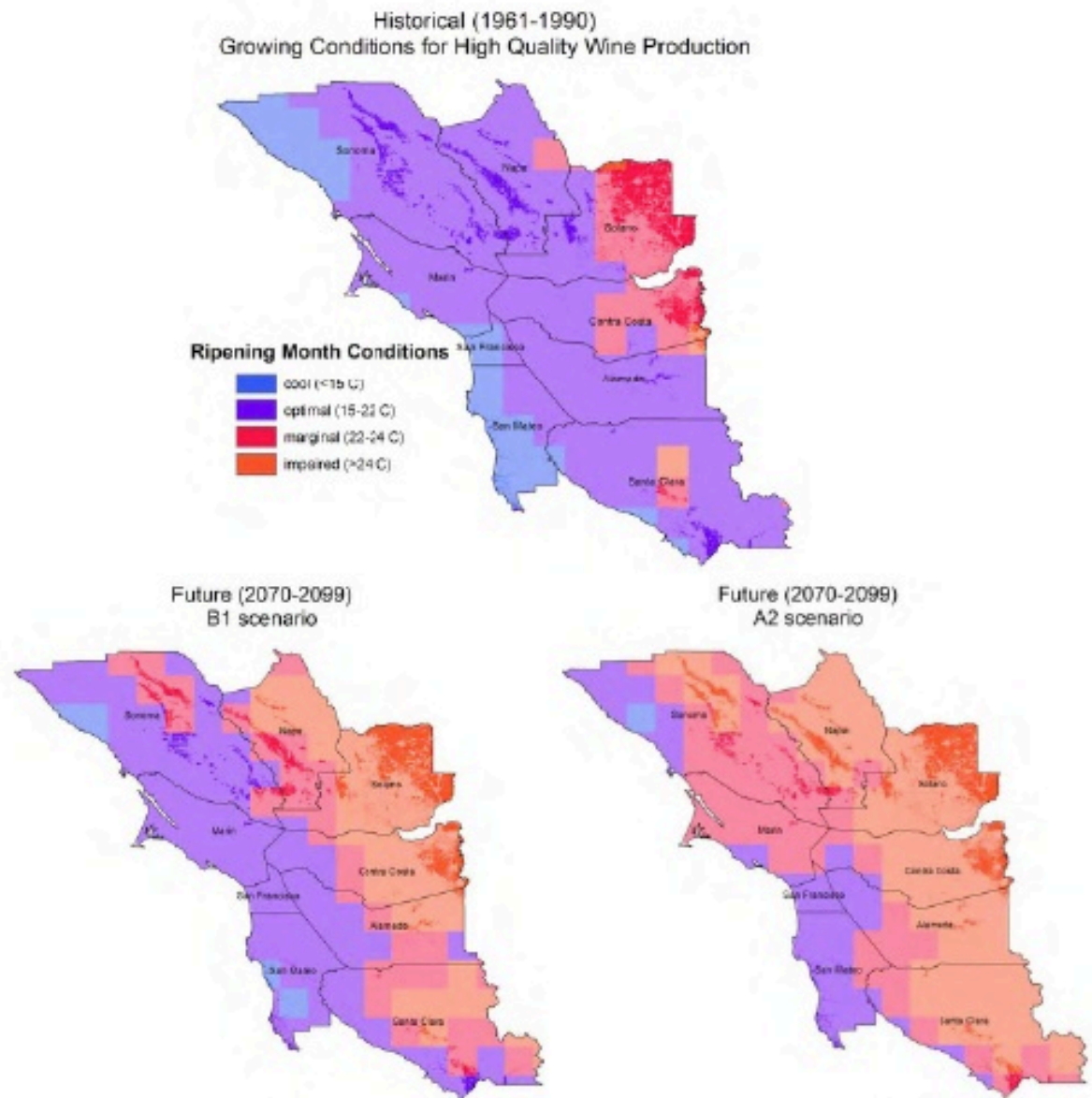
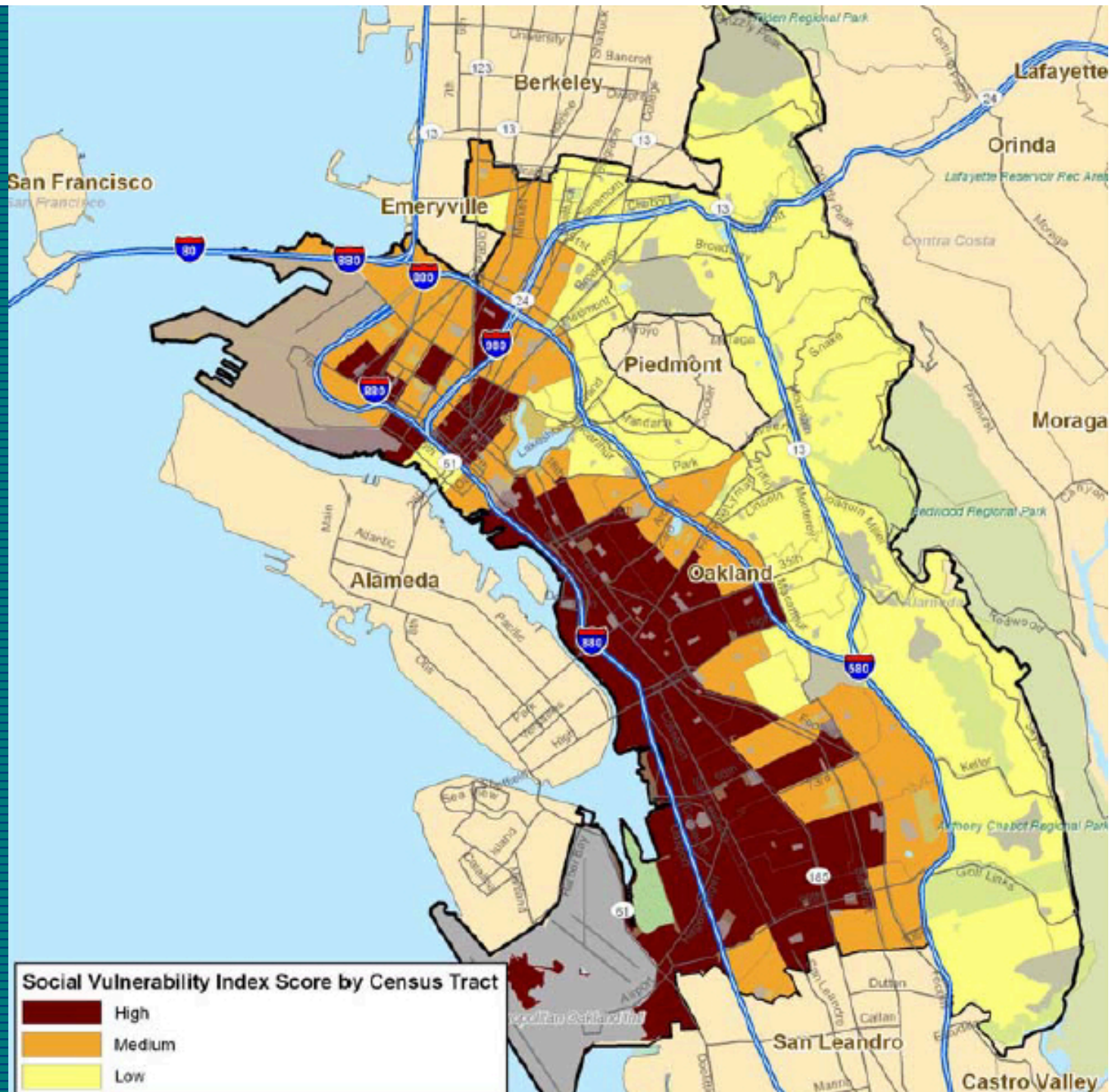


Figure 8. Historical (1961–1990) and Future (2070–2099) Ripening Month Conditions for Wine Grape Growing, Under Two Climate Scenarios (B1 and A2). Average temperatures during ripening month determine whether climate is optimal (15°C–22°C), marginal (22°C–24 °C), or impaired (>24 °C) for producing high-quality wines. Brighter colors (corresponding to legend) show current agricultural acreage in the Bay Area; lighter colors show change in conditions for wine grape growing in areas not currently farmed.

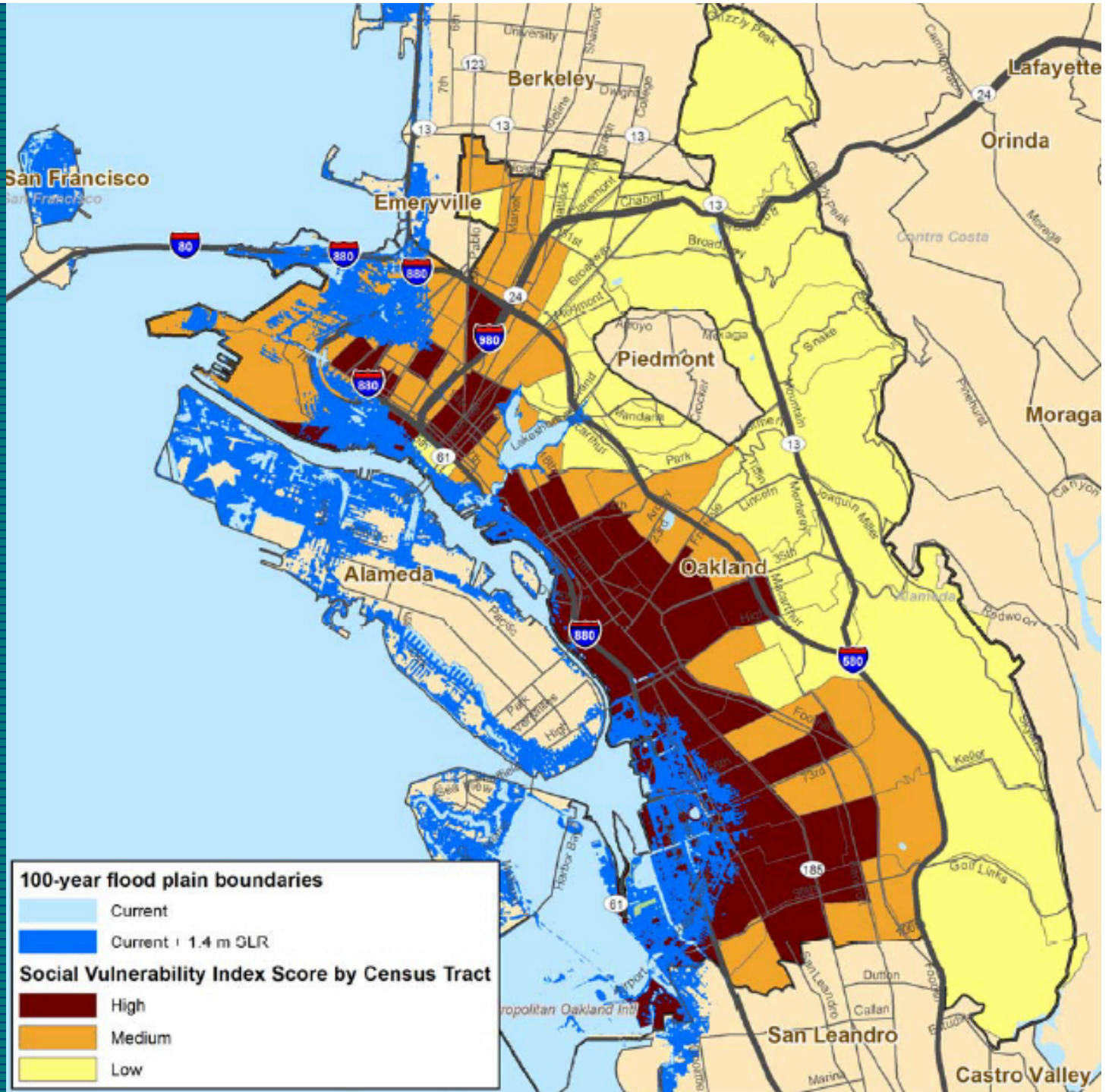
Oakland Social Vul. Index by Census Tract

Source: Pacific Institute, PIER



Oakland Social Vul. + Sea Level Rise

Source: Pacific Institute, PIER





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Environment > Sea ice

Arctic ice shrinks 18% against record, sounding climate change alarm bells

Scientists and environment groups say the fall is unprecedented and the clearest signal yet of global warming

John Vidal in Longyearbyen, Svalbard

The Guardian, Wednesday 19 September 2012 14.09 EDT



"We are now in uncharted territory. While we've long known that as the planet warms up, changes would be seen first and be most pronounced in the Arctic, few of us were prepared for how rapidly the changes would actually occur."

Mark Serreze

Director, National Snow and Ice Data Center
Boulder CO

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